

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): A cylindrical optoelectronic air cleaner comprising a main body of cylindrical shape, the main body including a draft fan, a transformer, a circuit board, an extreme outer spectrum ultraviolet ray tube and a cathode high voltage discharge fiber thread therein, characterized in that the main body ~~are~~ is provided with an air inlet and an air outlet, the air outlet being disposed on the front end of the main body, an air exhaust gridiron being disposed in the front surface of a curved plate fixed on a front gridiron on the front end of the main body; the air inlet being disposed on the rear end of the main body and having an air input gridiron provided with a dustproof gridiron, a dust screen and a dust cover for the air inlet; a draft fan fixing cover, a the draft fan and a fixing frame being provided adjacent to the inner surface of the air exhaust gridiron; a the carbon fiber thread being fixed to the center of the front surface of the air exhaust gridiron; an air collecting device being disposed between the air inlet and the draft fan, said air collecting device comprising a plurality of parallel stripe-like gridirons disposed in the direction of air flow and extending from said input grid toward said draft fan; and an extreme the outer spectrum ultraviolet ray tube being disposed at the center interior of the air collecting device between the draft fan and the stripe-like gridirons and shielded against viewing by a user.

2. (currently amended): The cylindrical optoelectronic air cleaner according to claim 1, wherein the air collecting device is defined by the space enclosed by an air collecting wall and a shield wall, and the extreme outer spectrum ultraviolet ray tube is fixed between ~~the~~ a front and ~~the~~ a rear shield wall so that the ultraviolet ray would not radiate outside the cleaner.

3. (currently amended): ~~The cylindrical optoelectronic air cleaner according to claim 1~~  
A cylindrical optoelectronic air cleaner comprising a main body of cylindrical shape, the main body including a draft fan, a transformer, a circuit board, an outer spectrum ultraviolet ray tube

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and a cathode high voltage discharge fiber thread therein, characterized in that the main body is provided with an air inlet and an air outlet, the air outlet being disposed on the front end of the main body, an air exhaust gridiron being disposed in the front surface of a curved plate fixed on a front gridiron on the front end of the main body; the air inlet being disposed on the rear end of the main body and having an air input gridiron provided with a dustproof gridiron, a dust screen and a dust cover for the air inlet; a draft fan fixing cover, the draft fan and a fixing frame being provided adjacent to the inner surface of the air exhaust gridiron; the carbon fiber thread being fixed to the center of the front surface of the air exhaust gridiron; an air collecting device being disposed between the air inlet and the draft fan; and an outer spectrum ultraviolet ray tube being disposed at the center of the air collecting device, wherein the air collecting device is defined by the space enclosed by an air collecting wall and a shield wall, and the outer spectrum ultraviolet ray tube is fixed between a front and a rear shield wall so that the outer spectrum ultraviolet ray would not radiate outside the cleaner, and wherein the main body is provided with a supporting frame therein and a fixing protection cover is connected to the top end of the supporting frame, an electronic converter being provided on the top end of the protection cover and a power supply electronic generator and a transformer being provided within the protection cover.